HELPDESK INFORMATION

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ITV INTERROGATOR SETUP AND REGISTRATION

Date: 21 November 2008

Quick Notes Objective: To provide the operational forces a step by step instruction on how to set up and

register the Interrogator and create RFID tags for unit equipment.

All RFID hardware must be registered with the ITV server prior to use. ITV Registration requires an Internet connection. ITV provides global visibility, tracking and detailed information of tagged items. Once you have added your server(s), you must assign a server from the list to be the default server you will use for ITV transmissions. The interrogator is used to burn and read RFID tags. The interrogator is also known as a SaviReader. It connects to a desktop or laptop using the COM Port. Interrogators need to be registered before used. All registration files (*.TIP) are sent to a USMC Routing server, Remote Access Server (RAS), via FTP and then sent to the ITV server via SFTP (SSH + FTP).

MDSS II SYSTEM ADMIN

NOTE: The "Registration File" created by the process of setting up and registering the 650/410 interrogator uses information from the MDSS II System Administrator. Prior to adding the interrogator and burning RFID tags the user must have accurate information in MDSS II System Administrator. If you did not set up the MDSS II account on the computer you will need to ensure the user information is updated in MDSS II through the SYSADM function; <START>, <PROGRAMS>, <MDSS 7.2>, <System Administrator>. Login the SYSADM with the User ID and Password. Create an account with correct contact information. This information is sent out in the registration file created by the interrogator during the setup and is used by the RFITV Helpdesk to notify the MDSS II user of any problems concerning the tags associated to that registration file. Add administrator privileges so the user can edit all plans in the database. DO NOT DELETE THE CURRENT ADMINISTARTOR UNTIL YOU HAVE CREATED A NEW ONE AND GIVEN ADMINISTRATON PRIVELEGES AS THIS WILL LOCK YOU OUT OF THE PROGRAM. Call the help desk if you have questions with this process.

SET UP ITV CONNECTION IN MDSS II

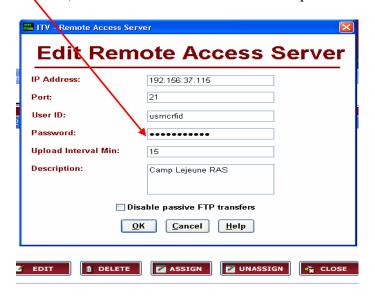
User needs to ensure the interrogator is powered and working correctly. After applying power watch the window on the interrogator. The serial number will flash, one digit at a time, and when it is ready it is display a blinking dash with a solid red dot. Use the supplied RS-2324 to RS-485 Interface converter cable to connect the Interrogator to the computer.

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1. In the MDSS II plan select <**AIT>**, <**Setup>**, <**ITV>**. The ITV- Remote Access Server Listing window displays. Click the <**ADD>** to add an Interrogator or <**Edit>** to select a current interrogator and change the information entered. The ITV Remote Access Server window displays. It is here the user can edit connection to the Remote Access Server (RAS). This is the only information that the user can enter to correctly be connected to the RAS. Enter the routing server information as entered above (Password is case sensitive: Rf1du5mcity). Click the <**OK>** to exit ITV setup.



NOTE: <u>DO NOT</u> check box – Disable passive FTP transaction, it is a "Direct ITV Connection". This informs the system that the server you are adding is the actual ITV server. The only scenario where this option applies is where no connection to any of the USMC ITV Routing Servers are available. DO NOT use this option unless you are specifically informed to do so, and should only be used in extremely rare circumstances.

3. In the "ITV- Remote Access Server Listing" window select the record then **Assign**> tab, this will highlight the record light green. Then select **CLOSE**> to exit the window.



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SET UP INTERROGATOR

1. In the MDSS II plan select **<AIT>**, **<Setup>**, **<Interrogators>**. At the Interrogator listing window Select **<Add>**. This brings up the Add Interrogator Window. This window allows the user to identify the Interrogator's information to the server. Once all information is entered select **<OK>**.



Note: To ensure the interrogator setup is correct in MDSS II, the following information is provided as an example of what information the user will need to know/enter.

- Interrogator ID (Serial #): Found on the 650/410Interrogator
- AIT Location: Data found in MDSS II plan and must have a Lat/Long assigned to it.
- Interrogator Name: Military Installation Name or City Name (No Spaces)
 - o (LEJEUNE or PENDLETON)
- Interrogator Site Location: Auto Populates the Installation/City
 - (LEJEUNE or PENDLETON)
- Interrogator Sequence #: Last 3 Digits of the Interrogator Serial Number.
- **COM PORT:** 1
- Communication Protocol: RS-485
- Select the Interrogator Model: Found on the 650/410 interrogator
- Interrogator Description: (Interrogator Name; State/Country Code; Location Description)
 - o (LEJEUNE NC BLDG H1 G4 SMO)
- Interrogator Function: Write
- Signal Strength: Do not change

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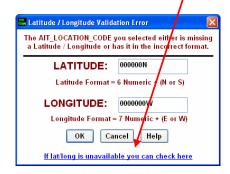
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Note: If a Lat/Long was assigned to the AIT Location prior to this step the below window will not appear. If a Lat/Long was not assigned to the AIT location prior to this step the following window will appear. The user should know the Lat/Long for this AIT location and must enter it here. If you leave the Lat/Long all Zeros, the registration file will be rejected by the ITV help Desk. If the user does not know the Lat/Long select the link at the bottom of this window.

2. If needed enter Lat/Long here and select <**OK**>.



3. Selecting OK will bring the "Interrogator Listing" window up, validate the information you have entered and select **Close**> to exit.

STEPS TO COLLECT, ASSIGN, BURN AND READ TAGS

<u>COLLECTING TAGS:</u> Initially, LOG AIS must populate its database with a list of tags so that they can each be assigned to equipment in the UDL. After a collection, the user should verify that all tags in the tag listing are ones that they should be using and not random tags in range of the interrogator during a collect. Tag IDs can be assigned to specific Units so that each unit can filter their tag listing to display only the tags they should use during equipment association.

1. Select <**AIT**>, <**Collect**>, this will bring up the Tag Collection Notice. Select <**Close>.**



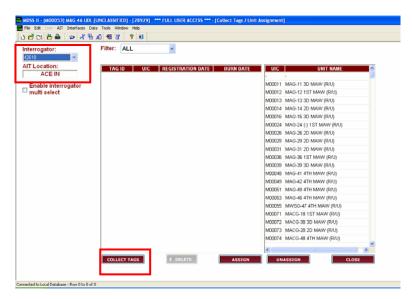
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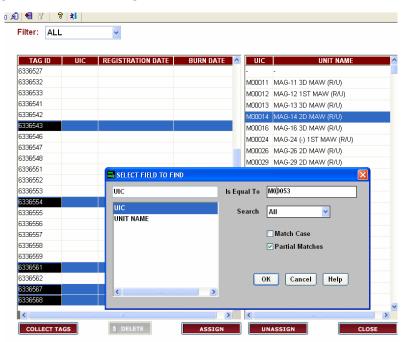
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2. In the "Collect Tags / Unit Assignment" window the user will be able to collect tags and assign them to his unit (Claim the tags). Select **Interrogator** and the **AIT Location** will auto populate and then select **<COLLECT TAGS>** tab at the bottom.



3. Once completed, all collected tags will be display on the left side of the screen. The user will assign those tags being used to his unit. In later steps this process will allow him to only view the tags assigned to that UIC. Select tag(s) by highlighting them. Then select the assigned UIC and select the <Assign>tab. Note: A UIC look up is also available on this screen. If needed select <OK> after identifying the UIC, then <Assign> to assign the UIC to the tag(s).

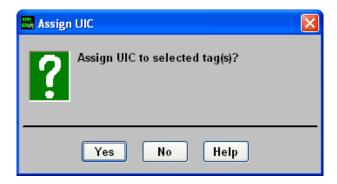


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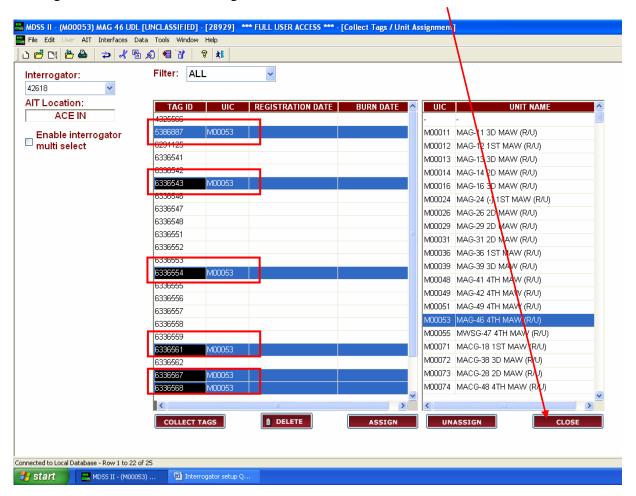
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4. Select **Yes**> to Assign UIC to the selected tag(s).



5. This assigns the Unit's UIC to the tags selected for use. Select < Close>.



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ASSIGN TAGS: Tag assignment is part of the planning process you go through before burning the tags. A filter may be used on the tag listing so that you can display only the tag IDs that are assigned to a particular UIC. Assigning a tag to a piece of equipment does not write any data to the tag. The tag must be burned for data to be written to the tag. No data is sent to ITV until a burn takes place. Assignments can be done automatically to save time but must be done individually if the tags are already mounted onto a piece of equipment. While tags can be assigned to any piece of equipment, tags are primarily assigned to Principal End Items (PEI), Primary Movers and Containers.

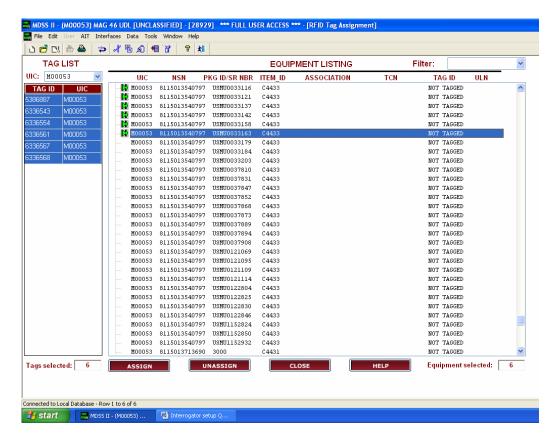
1. Select **<AIT>**, **<Assign Tags>** this opens the "RFID Tag Assignment" window. It is here that the user will select the Items to assign to the tags. Select the **<UIC>** to limit the selection of tag to only the UIC the user entered.

Note: There are two Methods to do the assignments Individual Tag or Group Assignments.

<u>Individually Assign</u>: The assignment of one tag to one selected equipment item.

<u>Group Assign</u>: Select multiple tags to be assigned to cargo and then select the cargo to be assigned. If done correctly the Tags selected and Equipment selected windows at the bottom of the page will both have the same number of records.

2. Once the tags and equipment has been selected. Select <**ASSIGN**> at the bottom of the page.



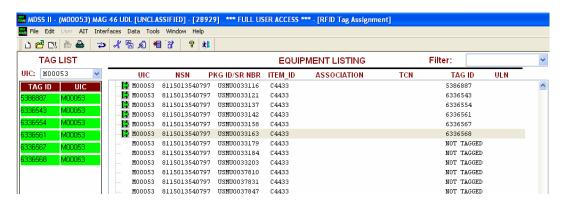
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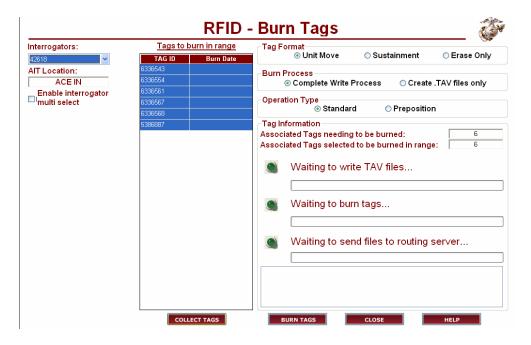


3. After the records have been assigned the tags will turn Green in the "TAG LIST" window. Under the "EQUIPMENT LISTING" window there will be TAG ID assigned to those items. Select **<Close>** at the bottom of the page.



BURN TAGS: After tags have been collected (possibly assigned to a particular UIC) and assigned to a piece of equipment, the tag must be burned. When the tag is burned, the system automatically attempts to register the tag with the ITV Server. Tags must be assigned to equipment in order to write data to them. Every time a tag is re-burned, the system will automatically attempt to re-register the tag with the ITV Server. If a tag is burned, but does not yet have a TCN, it will not be registered with the ITV Server. Although this does not provide the capability of tracking, it can still be useful as a way to view the contents of a container or to locate a particular item in a crowded area by activating a beeper. A tag burned without a TCN must be re-burned before deploying after the TCN/TCMD data has been generated.

1. Select <AIT>, <BURN TAGS>. Select the **Interrogator** and **<COLLECT TAGS>** tab.



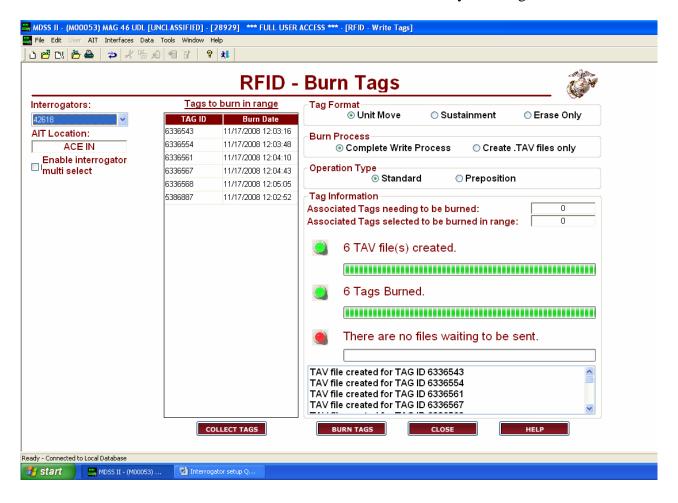
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2. At the completion of the burning process there will be a Burn Date Assigned to the tags. *Note: In this example the computer was not connected to the internet so the transfer of file was not allowed.* After the TAV and TIP files have been burned the user can exit the window by selecting the **<CLOSE>** tab.



<u>READ TAGS:</u> There are two different types of read modes for RFID tags in MDSS II, manual and automatic. The manual (or Detailed) read is used to gather specific information about a tag. If you wish to add the data in the tag to your UDL, you can post the detailed tag information to the NEWCARGO table. NOTE: If a tag is stationary, but is within range of an interrogator used for reads, it will use up battery life every time tags are polled. If you leave tagged items too close to an interrogator, their batteries will die quickly.

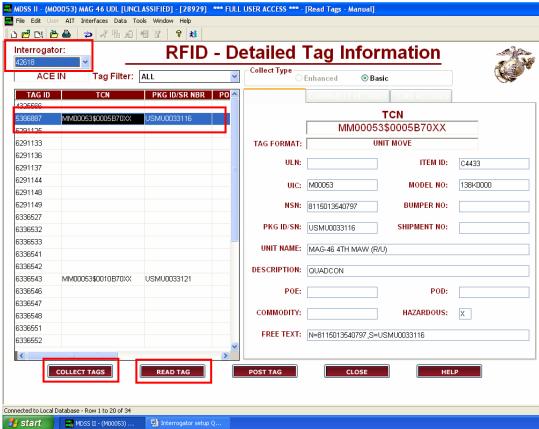
1. Select <AIT>, <Read Tags>, <Manual/Detailed Read>.

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2. Select **Interrogator** using the drop down window. The AIT Location auto populates. Select the **<COLLECT TAGS>** tab to collect tags to be read. Once selected tags have been collected the user can read a tag by highlighting the tag and then selecting the **<READ TAG>** tab. It may take a few minutes to pull up the RFID - Detailed Tag Information. This will pull up tag information the unit had burned to that tag.



NOTE: To get detailed information the user must complete the Embarkation Workbench assigning cargo to carriers within the workbench. Then the user must complete the GTN Export this will allow the TCMD information to be burned to the Tags and will be populated in this window.

<u>ITV UPLOAD:</u> Conducting the Burn function, MDSS II attempts to connect to the selected ITV routing server. If, for any reason, the connection is not available or the RAS is down the user at a later time can conduct the ITV upload of any TIP waiting files. Select <**AIT**>, <**ITV Upload**>) and transfer all pending *.TIP files. If you are using the Mobile RFID capability, if there are any *.TIP files still waiting to be transferred, they are transferred as well.

<u>E-MAILING .TIP FILES:</u> If problems occur while conducting this process, the user will need to call the TE&AT helpdesk prior to e-mailing their .TIP files. Call or E-mail the MDSS II Help Desk for assistance. Contact information is listed at the top of the page.